

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An isolated nucleic acid molecule selected from the group consisting of:

a) a nucleic acid molecule comprising a nucleotide sequence of SEQ ID NO:1, or SEQ ID NO:3;

b) a nucleic acid molecule comprising a nucleotide sequence which encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:2;

~~c) a nucleic acid molecule which encodes a fragment of a polypeptide comprising the amino acid sequence of SEQ ID NO:2, wherein the fragment comprises at least 120 contiguous amino acids of SEQ ID NO: 2;~~

~~d) a nucleic acid molecule which encodes a naturally occurring allelic variant of a polypeptide comprising the amino acid sequence of SEQ ID NO:2, wherein the nucleic acid molecule hybridizes to a nucleic acid molecule comprising SEQ ID NO: 1, 3, or a complement thereof, under stringent conditions of hybridization in 0.5M sodium phosphate, 7% SDS at 65°C, followed by one or more washes at 0.2X SSC, 1% SDS at 65°C, and wherein the polypeptide binds a monocarboxylated ion; and~~

[[e)] d) a nucleic acid molecule consisting of a nucleotide sequence which encodes the MCT domain (amino acids 40 to 477 of SEQ ID NO:2) of 25466, wherein the MCT domain binds a monocarboxylated ion.

2. (Currently Amended) The isolated nucleic acid molecule of claim 1, which is selected from the group consisting of:

a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 1, SEQ ID NO:3; and

b) a nucleic acid molecule comprising a nucleotide sequence which encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:2.

3. (Original) The nucleic acid molecule of claim 1 further comprising vector nucleic acid sequences.

4. (Original) The nucleic acid molecule of claim 1 further comprising nucleic acid sequences encoding a heterologous polypeptide.

5. (Currently Amended) A non-human host cell which contains the nucleic acid molecule of claim 1.

6. (Original) The host cell of claim 5 which is a mammalian host cell.

7. (Original) A non-human mammalian host cell containing the nucleic acid molecule of claim 1.

8. - 11. (Canceled)

12. (Currently Amended) A method for producing a polypeptide selected from the group consisting of:

- a) a polypeptide comprising the amino acid sequence of SEQ ID NO:2;
- b) ~~a polypeptide comprising a fragment of the amino acid sequence of SEQ ID NO:2, wherein the fragment comprises at least 120 contiguous amino acids of SEQ ID NO:2;~~
- e) a naturally occurring allelic variant of a polypeptide comprising the amino acid sequence of SEQ ID NO:2, wherein the polypeptide is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule comprising SEQ ID NO:1, ~~SEQ ID NO:3~~, or a complement thereof under stringent conditions of hybridization in 0.5M sodium phosphate, 7% SDS at 65°C, followed by one or more washes at 0.2X SSC, 1% SDS at 65°C, and wherein the polypeptide binds a monocarboxylated ion; and

[[d]]c) a polypeptide ~~comprising~~ consisting of the MCT domain (amino acids 40 to 477 of SEQ ID NO:2) of 25466, wherein the MCT domain binds a monocarboxylated ion;

comprising culturing the host cell of claim 5 under conditions in which the nucleic acid molecule is expressed.

13. - 22. (Canceled)

23. (Currently Amended) A non-human host cell which expresses the nucleic acid molecule of claim 1.

24. (Previously Presented) The host cell of claim 23 which is a mammalian host cell.

25. (Previously Presented) An isolated nucleic acid molecule, consisting of a nucleic acid sequence selected from the group consisting of:

- a) SEQ ID NO: 1;
- b) SEQ ID NO:3; and
- c) a nucleic acid molecule which encodes a polypeptide having an amino acid sequence consisting of SEQ ID NO:2.